

COATING THICKNESS GAUGE (ADVANCED TYPE)

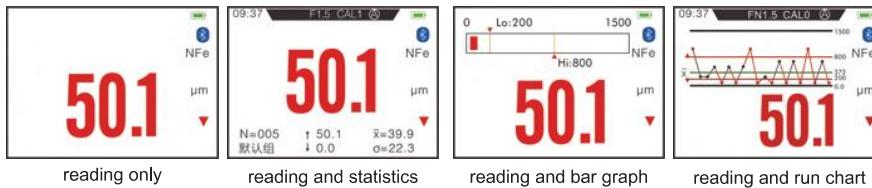
CODE 5413-TC31



5413-TC31

5413-TC31-FN15
probe (included)

- 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)
- Built-in temperature compensation ensures precise measurements, capable of measuring ultra-thin coatings
- 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



SPECIFICATION

Measuring range	refer to the specification of probes
Accuracy	$\pm(2\%L+1\mu\text{m})$: $\le 1500\mu\text{m}$ $\pm(3\%L+1.5\mu\text{m})$: $>1500\mu\text{m}$, L is measuring thickness in μm
Resolution	range $<3000\mu\text{m}$: $0.1\mu\text{m}$ ($0\sim99.9\mu\text{m}$), $1\mu\text{m}$ ($100\sim3000\mu\text{m}$) range $>3000\mu\text{m}$: $0.1\mu\text{m}$ ($0\sim99.9\mu\text{m}$), $1\mu\text{m}$ ($100\sim999\mu\text{m}$), 0.01mm ($\ge 1.00\text{mm}$)
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, continuous mode, average mode, zinc coating weight mode (for FE mode only)
Storage	1600 (100 \times 16 groups)
Operation environment	temperature: $-10^\circ\text{C}\sim50^\circ\text{C}$; humidity: $<80\%$ (non-condensing)
Unit	μm , mil
Language	English, Chinese
Power supply	2 \times 1.5V AA batteries or USB
Dimensions (L \times W \times H)	main unit: 134 \times 67 \times 38mm, probe: Ø14mm \times 850mm (cable included)
Net weight	185g

STANDARD DELIVERY

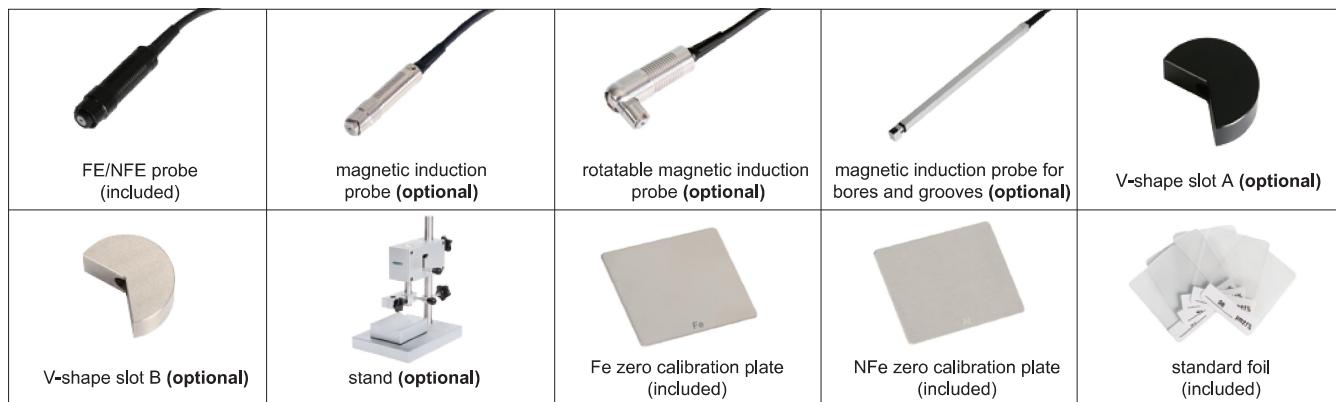
Main unit	1 pc
Probe (5413-TC31-FN15)	1 pc
Fe zero calibration plate	1 pc
NFe zero calibration plate	1 pc
Standard foil	1 set
1.5V AA battery	2 pcs
Protective case	1 pc

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
5413-TC31-FL30 (optional)	0~3000µm	0.3mm	flat: Ø6mm, inner tube: Ø30mm	1.5mm	(0~90°)
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



PROBE APPLICATION

■ probe with V-shape slot measuring cylinder	V-shape slot A	■ rotatable magnetic induction probe measuring confined area
magnetic induction probe (optional) V-shape slot B (optional)	V-shape slot B	90° stand