

## COATING THICKNESS GAUGE (ADVANCED TYPE)

### PART No. 5413-TC31



- 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	≤59mils: ±(.04mils+2%L) >59mils: ±(.06mils+3%L), L is measuring thickness in mils
Resolution	0.01mils (0~9.99mils), 0.1mils (10.0~99.9mils), 1mil (≥100mils)
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 (100×16 groups)
Operation environment	temperature: 14°F~122°F; humidity: <80% (non-condensing)
Unit	mil, μm
Language	English, Chinese
Power supply	2×1.5V AA batteries or USB
Dimensions (L×W×H)	main unit: 5.28×2.64×1.50", probe .55" DIA×33" (cable included)
Net weight	.41lb

## 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**

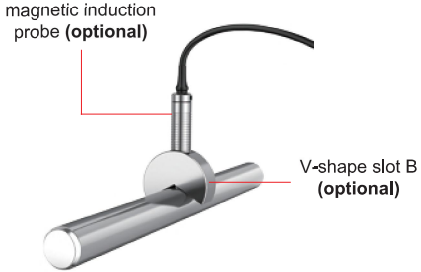
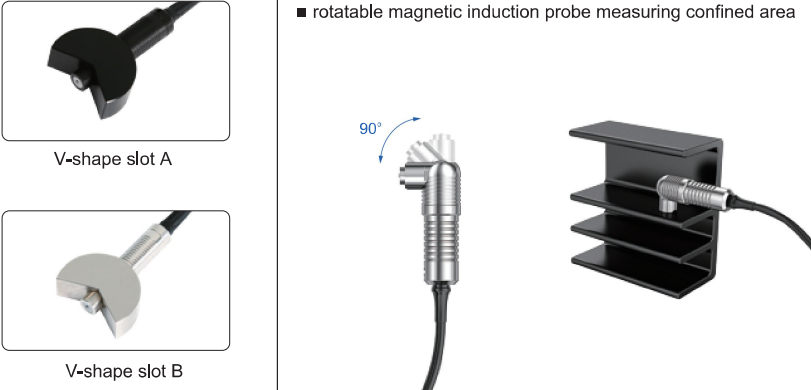


FE/NFE probe	5413-TC31-FN30
Magnetic induction probe	5413-TC31-FE15, 5413-TC31-FE30, 5413-TC31-FE50
Rotatable magnetic induction probe	5413-TC31-FL15, 5413-TC31-FL30, 5413-TC31-FL50
Magnetic induction probe for bores and grooves	5413-TC31-FE90
V-shape slot A	5413-VA-FN (for 5413-TC31-FN15, 5413-TC31-FN30)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

**SPECIFICATION OF PROBES**

Part No.	Range	Minimum substrate thickness	Minimum measuring area	Minimum curvature radius of convex workpiece	Probe type
5413-TC31-FN15 (included)	0~59mils	.01"	.24" DIA	FE .06", NFE .12"	FE/NFE probe
5413-TC31-FN30 (optional)	0~118mils	.01"	.24" DIA	FE .06", NFE .12"	
5413-TC31-FE15 (optional)	0~59mils	.01"	.24" DIA	.06"	magnetic induction probe
5413-TC31-FE30 (optional)	0~118mils	.01"	.24" DIA	.06"	
5413-TC31-FE50 (optional)	0~196mils	.01"	.24" DIA	.06"	
5413-TC31-FL15 (optional)	0~59mils	.01"	flat .24" DIA, inner tube: 1.18" DIA	.06"	rotatable magnetic induction probe (0~90°)
5413-TC31-FL30 (optional)	0~118mils	.01"	flat .24" DIA, inner tube: 1.18" DIA	.06"	
5413-TC31-FL50 (optional)	0~118mils	.01"	flat .24" DIA, inner tube: 1.18" DIA	.06"	
5413-TC31-FE90 (optional)	0~59mils	.01"	flat .31" DIA, inner tube .51" DIA	—	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		■ rotatable magnetic induction probe measuring confined area	
			
 V-shape slot A			
 V-shape slot B			