DIGITAL COATING THICKNESS GAUGE FOR FERROUS & NON-FERROUS BASE MATERIAL MODEL-KM-FN-500A



INTRODUCTION :

This compact gauge can be used for non-destructive coating thickness measurement of non-magnetic coatings, e.g. paint, enamel, chrome on steel, & insulating coatings, e.g. paint & anodizing coatings on non-ferrous metals.

APPLICATION :

The instrument will select the F/N mode automatically. Coating thickness testing for car paint, electroplating, surface technology, pipeline anticorrosion coating, mechanical equipment surface anticorrosion, chemical equipment and quality control.

✷ **Display :** LCD display with Backlight.

✷ FUNCTIONS :

Probe	Probe F	Probe N
Measuring Principle	Magnetic induction	Eddy Currents
Measuring range	0 to 1500μm	0 to 1500μm
Accuracy	Type A: ±(3%+1mm) Type B: ±(2%+1mm)	Type A: ±(3%+1mm) Type B: ±(2%+1mm)
Resolution	0μm~99.9μm(0.1μm) 100μm~999μm(1μm) >1000μm(0.01mm)	0μm~99.9μm(0.1μm) 100μm~999μm(1μm) >1000μm(0.01mm)
Calibration	Zero point calibration	
Statistics	No. of readings, mean, minimum, maximum	
Units	μm, mm, mils	
Minimum curvature radius convex	5mm	
Minimum curvature radius concave	25mm	
Minimum Measuring Area	Diameter 20mm	
Minimum thickness of substrate	0.2mm	0.05mm
Maximum measuring rate	Two readings per second	
Operating Temperature	0~50°C (32 ~ 122°F);Humidity:20%~ 90%RH	
Storage Temperature	-10 ~ 60°C (14 ~ 140°F)	
Standard compliance	CE ROHS FCC	

✷ **Power supply :** 1.5V AAA x 2 Battery.

✷ **Dimension :** Approx. 110(H) x 53(W) x 24(D)mm

✷ **Weight :** Approx. 92 gm. (including battery)

✷ **Accessories :** Battery, User Manual & Carrying Case.

COATING THICKNESS GAUGE FERROMAGNETIC METAL, NON-FERROMAGNETIC METAL, IRON GALVANIZED SUBSTRATE MODEL-KM-EC-370P

NEW



INTRODUCTION :

This thickness gauge can non-destructively measure the thickness of the non-conductive coating on the metal surface and the thickness of the non ferromagnetic metal coating on the surface of ferromagnetic metals (such as Fe, nickel and cobalt, etc.). The specific purpose of the instrument includes measuring the thickness of the paint or galvanized layer on the surface of Fe and stainless steel, and measuring the thickness of the paint or plastic film on the surface of aluminum and copper.

✷ FUNCTIONS :

Probe type	Standard Probe
Measuring principle	Fe: Magnetic induction; NFe: Eddy current effect
Measuring range	0~2000μm
Accuracy	±(3%+1μm)
Resolution	0.1μm(0~100μm) ; 1μm(>100μm)
Calibration	Zero calibration
Unit	μm, mm, mil
FZ recognition range (Iron galvanized)	3~500μm
Minimum radius of curvature of substrate	Convex: 5mm Concave:25mm
Minimum measurement area	Diameter 15mm
Minimum substrate thickness	Fe : 0.30mm; NFe : 0.05mm
Maximum measuring speed	2 readings/sec
Operating Temperature	-10~50°C
Storage temperature	-20~60°C
Protection class	IP40
Shell material	ABS

✷ ADDITIONAL FUNCTIONS :

- Record Data & View Data
- Zero Calibration & Abnormal Prompt
- Screen Rotation Function
- Backlight display
- Automatic shutdown after 2 minutes
- **Base material properties :**

  Fe : Ferromagnetic metal substrate

  NFe : Non-Ferromagnetic metal substrate

  FZ : Iron galvanized substrate

✷ **Power supply :** 1.5V x 2 AAA Alkaline Battery.

✷ **Dimension :** Approx. 134(H) x 44(W) x 27(D)mm

✷ **Weight :** Approx. 90gm. (including battery)

✷ **Accessories :** Battery, User Manual & Carrying Case.

DIGITAL COATING THICKNESS GUAGE

Model - KM 117A - Ferrous Base



✷ **Display :** LED Back-light & LCD display Reverse for easy reading.

✷ FUNCTIONS :

- **Thickness Range :** 0 to 80.0mils, 0 to 2000μm.
- **Resolution :** 0.1mils/1μm.
- **Accuracy :**

  Ferrous :

  ±4dgts on 0 to 7.8mils

  ±(3%+4dgts) on 7.9mils to 39.0mils

  ±(5%+4dgts) on 39.1mils to 80mils

  ±10dgts on 0 to 199μm

  ±(3%+10dgts) on 200μm to 1000μm

  ±(5%+4dgts) on 1001μm to 1999μm

- **2-point calibrations.**
- **Inch & Metric measurement options.**

✷ ADDITIONAL FUNCTIONS :

- Detectable Substrate Material : Ferrous metal (iron, steel).
- Portability and simple one hand operation.
- Select the on-line display for one off MAX/MIN/MAX-MIN/ AVG function.
- Fast one point calibration for frequent measuring thickness use.
- Auto-power off & Low battery indication.
- Data logging function capacity up to 255 samples.
- Warning beeper triggers by Hi/Lo limit settings.
- μm/mils user-selective.
- Zeroing Plate & Standard Coating Plate.
- Attached with carrying strap.

✷ **Power supply :** 1.5V AAA x 2 Battery.

✷ **Dimension :** Approx. 105(H) x 55(W) x 27(D)mm

✷ **Weight :** Approx. 80 gm. (including battery)

✷ **Accessories :** Battery, User Manual & Carrying Case, Ferrous Plate, standard Coating Plate.