



# EC470B

# Coating Thickness Gauge

The EC-470B thickness gauge enables non-destructive coating measurement on ferrous and non-ferrous metals. It accurately measures paint, galvanized layers, and plastic films. A colour segment LCD ensures high precision in low-light environments.

## Main Features

- \* High Resolution: Up to 0.1  $\mu\text{m}$ .
- \* Precision Accuracy:  $\pm(3\% + 1\mu\text{m})$ .
- \* Wide Measuring Range: 0~2000 $\mu\text{m}$ .
- \* Continuous Measurement Support.
- \* Zero Calibration Function.
- \* Iron Putty Power Identification.
- \* Iron-Galvanized Substrate Recognition.
- \* Battery Protection.
- \* Manual Screen Rotation.
- \* Automatic Shutdown.
- \* Fast Reaction Time: Less than 0.5 seconds.
- \* High Precision Measurement: Ensures accuracy with a resolution of 0.1  $\mu\text{m}$ .
- \* Dual Technology: Supports magnetic induction and eddy current methods.
- \* Substrate Recognition: Auto-detects ferrous (Fe) and non-ferrous (NFe) metals.
- \* Wide Measurement Range: Measures thickness from 0 to 2000 $\mu\text{m}$ .
- \* User Calibration: Supports zero calibration for precise results.
- \* Fast Response: Provides measurements in less than 0.5 seconds.
- \* Data Recording: Stores, recalls, and deletes previous readings.
- \* Alarm System: Red backlight alerts for user-defined limits.
- \* Rotatable Display: Manual screen rotation for ease of use.
- \* Battery Protection: Auto shut-down function for extended battery life.



Model	EC-470B
Probe type	Internal
Measuring principle	Fe: Magnetic induction;NFe: Eddy currents
Measuring range	0~2000μm
Accuracy	±(3%+1μm)
Resolution	0.1μm(0~100μm);1μm(>100μm)
Unit	μm,mm,mil
Iron putty power identification range	0~1000μm
Iron-galvanized substrate recognition range	3~500μm
User calibration method	Zero calibration
Probe triggering force	0.5~1.2N
Minimum measurement area	Diameter 15mm
Minimum substrate thickness	Fe:0.30mm;NFe:0.05mm
Maximum measuring speed	2 readings/sec
Display	color segment LCD screen
Operating environment	-10~50°C
Storage environment	-20~60°C
Power supply	2 pcs AAA 1.5V alkaline batteries;2 pcs AAA 1.2V rechargeable batteries
Protection class	IP40
Dimensions	102*53.6*25mm
Material	ABS
Weight	About 75g(without batteries)