

Coating Thickness Gauge

The Coatings Thickness Gauge can non-destructively measure the thickness of non-conductive coatings on metal surfaces, as well as non-ferromagnetic metal coatings on ferromagnetic metals (e.g. Iron, Nickel or Cobalt). Specific applications include measuring iron, stainless steel surface paint or galvanizing layer thickness, measure the thickness of aluminium, copper surface paint or plastic film, etc.

The Coatings Thickness Gauge has a built-in magnetic induction and eddy current effect probe, with a measurement range of 0 to 2000µm and a measurement accuracy of $\pm(2\% + 1\mu\text{m})$.

During the process of shrinking the probe to the inside of the instrument, the instrument can automatically distinguish the properties of the substrate and measure the thickness of the coating (plating) layer. The measurement results can also be sent to the mobile application in real time by bluetooth.

The instrument has two displays, the large OLED screen is on the front of the instrument and the smaller OLED screen is on the top of the instrument. The dual-screen display allows users to view the measurement results from different angles. The OLED display screen is used to enhance the low temperature performance.

The product is suitable for car paint inspection: while measuring paint thickness, it can also identify iron galvanized and iron powder putty materials. The instrument has strong anti-interference ability and can work normally in a more complex electromagnetic field environment.



- One button operation
- Easy to attach probe
- Dual screen display
- Enhanced low temperature performance



Coating Thickness Gauge

Function and technical parameter	
Model	EC-570SX-P
Measurement principle	Fe: Magnetic induction; NFe: Eddy current effect
Measurement range	0 to 2000µm
Accuracy	±(2% + 1µm)
Resolution	0.1µm (0 - 99.9µm); 1µm (>100µm)
Unit	µm ,mm, mil
Iron powder putty identification range	0 to 2000µm
Iron galvanized identification range	3 to 1000µm
User calibration method	Zero calibration
Probe trigger force	0.5 to 1.2N
Minimum radius of curvature of substrate	Convex 5mm; Concave 25mm
Minimum measurement area	Diameter 15mm
Minimum substrate thickness	Fe: 0.20mm; NFe: 0.03mm
Reaction time	Less than 0.5 seconds
Display	White OLED (128*64) + White OLED (128*32)
USB data transfer	Support
Bluetooth and mobile APP	Support
Operating temperature	-40°C to +50°C
Stored temperature	-50°C to +60°C
Power supply	2 AAA 1.5V alkaline batteries; 2 AAA 1.2V rechargeable batteries
Protection class	IP40
Dimensions	101mm (H) x 64mm (W) x 25mm (D)
Shell material	ABS
Weight	About 60g (without battery)



APPLICATIONS

- Automotive paint inspection
- Metal anti-rust treatment
- Film thickness detection
- Hardware parts processing

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NOTICE:

- Avoid sun exposure
- Avoid contact with corrosive chemicals
- Do not drop

WARNING

- Do not disassemble without permission
- Strictly prevent strong electricity and electrostatic shock