



These gauges can be used for non-destructive coating thickness measurement of non-magnetic coatings, e.g. paint, enamel, chrome on steel, and insulating coatings, e.g. paint and anodizing coatings on non-ferrous metals.



【Features and Functions】

- 1m length separated probe
- Range 0~5000um, accuracy $\pm 2\% \pm 1\mu\text{m}$
- 128*128dots LCD display
- Menu interface
- Red LED alarm indication
- LCD shows mean, maximum, minimum and standard deviation
- User can set alarm limit
- Readings can be stored, recalled and deleted
- Easy to do zero calibration and support multi-point calibration
- Connect with PC via USB and download readings
- Multi-language supported
- Up to 5 measurement groups supported
- Automatically detect the substrates type(F or N)
- Unit optional: um, mm and mils

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【Applications】

Coating thickness testing for car paint, electroplating, surface technology, pipeline anticorrosion coating, mechanical equipment surface anticorrosion, chemical equipment and quality control.

【Specifications and Selection Guide】


Mainframe Type	EC-900
Measuring units	μm, mm, mils
User calibration methodology	Zero calibration, point calibration
Statistics	Number of data, maximum, minimum, mean, standard variance
USB data transmission	Support
Storage capacity	2000 measurements
Display	Dot Display
Operating environment	Temperature: -10~+50°C; Humidity: 20~90% RH (non-condensing)
Storage environment	Temperature: -20~+60°C; Humidity: 20~90% RH (non-condensing)
Power supply	3 AAA 1.5V alkaline batteries 3 AAA 1.2V rechargeable batteries
Protection class	IP40
Dimensions	174*73*40mm
Shell material	ABS
Weight	About 200g (without batteries)
Standards	CE, ROHS, ISO 2178, 2360, GB/T 4956-2003, 4957-2003, JJG-818-2005

Probe Type	FN2.0	FN3.0	F5.0N3.0(recommendation)
Measuring principles	Fe: electromagnetic induction; NFe: eddy current effect		

Resolution	0.1 μ m (0~99.9 μ m); 1 μ m (\geq 100 μ m)		
Scope of measurement	0~2000 μ m	0~3000 μ m	Fe: 0~5000 μ m NFe: 0~3000 μ m
Precision	\pm (2%+1 μ m)		
Probe trigger force	0.3~0.8N		
Maximum measuring speed	2 readings/sec		
Minimum radius of curvature of substrate	Convex 5mm; Concave 25mm		
Minimum measurement area	Diameter 10mm		
Minimum substrate thickness	Fe: 0.20mm; NFe: 0.03mm		
Operating environment	Temperature: -10~+50°C; Humidity: 20~90% RH (non-condensing)		
Storage environment	Temperature: -20~+60°C; Humidity: 20~90% RH (non-condensing)		
Protection class	IP40		
Dimensions	Line: Φ 3.5*1000mm; Probe: Φ 17*67mm		
Shell material	Stainless Steel		
Weight	About 60g		

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