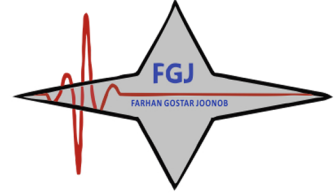


## Yowexa Ec-500A Compact Coating Thickness Gauges



### DESCRIPTION:

EC-500A thickness gauge has a built-in magnetic induction and eddy current effect integrated probe, which can non-destructively measure the thickness of non-conductive coatings on metal surfaces and non-ferromagnetic metal coatings on ferromagnetic metals (such as iron, nickel, cobalt). Specific uses include measure the thickness of the paint or galvanized layer on the surface of iron and stainless steel, and the thickness of the paint or plastic film on the surface of aluminum and copper.



### FEATURES:

Ruby probe  
Resolution up to 0.1 $\mu$ m  
Precision  $\pm(3\%+1\mu\text{m})$   
Measuring range 0~1500 $\mu$ m  
Display minimum, maximum, average  
User calibration support  
Maximum measurement speed 2 readings/sec  
Display with highlight backlight  
Power off Automatically  
Battery protection

### APPLICATION:

Testing of automotive paint thickness  
Ship manufacturing  
Metal Anti-rust Treatment  
Film thickness detection  
Hardware processing

Model	EC-500A
Probe position	Internal
Measuring principle	Fe: magnetic induction; NFe: eddy current effect
Measuring range	0~1500 $\mu$ m
Accuracy	$\pm(3\%+1\mu\text{m})$

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Resolution	0.1µm (0~99.9µm ); 1µm (>100µm)
Unit	µm, mm, mils
Calibration	Zero calibration
Statistics	Maximum, minimum, mean, number of data
Probe triggering force	0.3~0.8N
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 measured speed	2 readings/sec
Display	Segment code 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	2 AAA 1.5V alkaline batteries
	2 AAA 1.2V rechargeable batteries
Protection class	IP40
Dimension	115*54*30mm
Material	ABS
Weight	About 85g (without batteries)
Standard	CE, ROHS, ISO 2178, 2360, GB/T 4956-2003, 4957-2003, JJG-818-2005

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