



PRODUCT DATA SHEET EC-500A

EC-500A

Economical Coating Thickness Measuring Device

The compact coating thickness gauge is designed for non-destructive measurement of coating thickness, making it ideal for assessing non-magnetic coatings such as paint, enamel, and chrome on steel, as well as insulating coatings like paint and anodized layers on non-ferrous metals.



Main Features:

- * High measurement accuracy and stability
- * LCD display shows number, mean, maximum, and minimum readings
- * Simple zero calibration process
- * Automatic shutdown for energy efficiency
- * Low battery indicator for timely replacement
- * Automatic substrate type detection

Multiple Functions

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| * Accurate Readings | : Displays maximum, minimum, and average values. |
| * Smart Detection | : Automatically identifies substrate properties. |
| * Reliable Measurements | : Ensures precision even with probe retraction. |
| * Effortless Operation | : User-friendly probe adapts to surfaces quickly. |
| * Non-Destructive | : Measures coating thickness without damaging materials. |
| * Versatile Compatibility | : Works with ferromagnetic and non-ferromagnetic metals. |



Industrial Applications

- * Painting
- * Automotive
- * Manufacturing

Specifications:

SPECIFICATION	EC-500A
Measuring Principle	Fe: Magnetic induction; NFe: Eddy currents
Measuring Range	0–1500 μm
Accuracy	$\pm(3\% + 1 \mu\text{m})$
Resolution	0.1 μm (0–99.9 μm), 1 μm ($\geq 100 \mu\text{m}$)
Unit	μm , mm, mils
Operation Environment	Temperature: -10–50°C
Storage Environment	Temperature: -10–60°C
Power Supply	Two 1.5V AAA batteries
Standards / Certificates	CE, ROHS, ISO 2178, 2360, GB / T 4956-2003, 4957-2003
Size / Weight / Case Material	116 mm x 53 mm x 24 mm, 80 g (incl. probe) / ABS

