Instromart
Sensors & Instrumentation

Datasheet
EC-500 A

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

* 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	±(3% + 1 µm)
Resolution	0.1 µm (0–99.9 µm), 1 µm (≥100 µm)
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