



Coating Thickness Gauge LD-LCTG-A11

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Overview

The LD-LCTG-A1 Series is a portable coating thickness gauge designed for fast and precise measurement of coating thickness on metallic and non-metallic substrates. Using magnetic induction and eddy current principles, it is suitable for engineering applications, laboratories, and protective coating industries.

Features:

- Magnetic induction and eddy current measurement principles for versatile coating thickness testing
- Measures coating thickness on ferrous and non-ferrous substrates
- Manual or automatic power-off function for convenient operation
- Automatic memory of calibration values and automatic substrate recognition
- RS-232 data output for connection to a PC
- Optional Bluetooth data output for wireless data transfer
- Battery indicator provides convenient monitoring of power status
- Portable design supports use in engineering fields and laboratories

Applications:

It is suitable for coating thickness measurement and quality inspection in engineering, manufacturing, laboratories, and surface treatment applications. It can be used to evaluate coatings on a variety of metallic substrates and support routine inspection and quality control.

Specifications:

Type	Statistical
Unit	Metric / Imperial
Probe	F&NF type
Weight	215 g (excluding batteries)
Accuracy	$\pm 1-3\%$ or $\pm 2.5 \mu\text{m}$
Principle	F: Magnetic Induction / NF: Eddy Current
Dimensions	140 × 72 × 34 mm
Resolution	0.1 μm / 1 μm
Data Memory	99 groups
Power Supply	4 × 1.5 V AAA batteries
Measuring Range	0–2000 μm / 0–80 mil
Calibration Base	F and NF

Calibration Foils	1 set, 5 pieces
Min. Measuring Area	6 mm
Operating Conditions	Temperature: 0–40°C; Humidity: 10–90% RH
Optional Accessories	Software
Min. Sample Thickness	0.3 mm
Min. Radius of Workpiece	F: Convex 1.5 mm / Concave 25 mm; NF: Convex 3 mm / Concave 50 mm