



## **Coating Thickness Gauge LD-LCTG-A11**

**Labodam Equipment Ltd.**

**[info@labodam.com](mailto:info@labodam.com) | [www.labodam.com](http://www.labodam.com)**

# Coating Thickness Gauge LD-LCTG-A11

## 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         | ±1–3% or ±2.5 µm                         |
| 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                                 |

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