

# **Elcometer 101**

## **Coating Thickness Gauge**

### **Operating Instructions**



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A copy of this Instruction Manual is available for download on our Website via [www.elcometer.com](http://www.elcometer.com).

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Thank you for your purchase of the Elcometer 101 Coating Thickness Gauge. Welcome to Elcometer.

Elcometer are world leaders in the design, manufacture and supply of inspection equipment for coatings and concrete. Our products cover all aspects of coating inspection, from development through application to post application inspection.

The Elcometer 101 Coating Thickness Gauge is a world beating product. With the purchase of this product you now have access to the worldwide service and support network of Elcometer. For more information visit our website at [www.elcometer.com](http://www.elcometer.com)

## **1 INTRODUCTION**

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The Elcometer 101 Coating Thickness Gauge is a mechanical coating thickness gauge for measuring non-ferrous coatings or sheets applied to or laid on a ferrous magnetic base.

### **1.1 STANDARDS**

Your Elcometer 101 Coating Thickness Gauge can be used in accordance with the following National and International Standards: AS 2331.1.3, ASTM B 499, ASTM G 12, ISO 2178 *supersedes BS 5411-11*, SSPC PA2.

### **1.2 WHAT THE BOX CONTAINS**

- Elcometer 101 Coating Thickness Gauge
- Calibration Foils
- Carry case
- Wrist Harness
- Operating Instructions

## 2 GETTING STARTED

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Hold the Elcometer 101 Coating Thickness Gauge at right angles to the surface to be measured, place the two contacts on the surface and push down the small button to release the pointer. When the pointer comes to rest, it will indicate the thickness of the coating. Readings can be speeded up by using the push button as a brake by pumping it in and out until the pointer comes to rest.

If the component has become magnetised take an average of two readings through 180° at the same point.



## 3 CALIBRATION INSTRUCTIONS

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Take a foil equal in thickness to approximately mid scale reading and place this on an uncoated base of similar material to that to be measured. With the large zero button adjust the scale to the thickness of the foil. This is a more accurate method than setting the instrument to zero on an uncoated base.

To obtain an accurate reading the meter should be read with the pointer in line with zero button. For maximum accuracy keep the instrument clear of strong magnetic fields.

## 4 MAINTENANCE

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Elcometer products are designed to give many years reliable service under normal operating and storage conditions.

The instrument does not contain any user-serviceable components. In the unlikely event of a fault, the instrument should be returned to your local Elcometer supplier or direct to Elcometer. The warranty will be invalidated if the instrument has been opened.

## 5 TECHNICAL SPECIFICATION

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Material:	Aluminium case with steel contacts
Dimensions:	105 x 55 x 25mm (4.1 x 2.2 x 1")
Range:	0 - 600µm or 0-25mils
Operating Plane:	90° to substrate

Your Elcometer 101 Coating Thickness Gauge may be packed in a cardboard and foam package. Please ensure that this packaging is disposed of in an environmentally sensitive manner. Consult your local Environmental Authority for further guidance.

## 6 RELATED EQUIPMENT

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In addition to the 101 Coating Thickness Gauge, Elcometer produces a wide range of other Coating Thickness Gauges. Users of the Elcometer 101 Coating Thickness Gauge may also benefit from the following Elcometer product ranges:

- Elcometer 157 Coating Thickness Gauge
- Elcometer 211 Coating Thickness Gauge

For further information contact Elcometer, your local Elcometer supplier or visit [www.elcometer.com](http://www.elcometer.com)