

# Elcometer 415 Paint & Powder Coating Thickness Gauge



Elcometer 415 Coating Thickness Gauge

**At a glance:**

Fast, repeatable & accurate

Large screen display

Auto switches between Steel (F) or Aluminium (NF) substrates

Central Bigfoot™ probe for repeatable results

On-screen instructions

Rugged & reliable design

This easy to use, low cost gauge provides a simple, accurate and reliable way to measure coatings on smooth ferrous (steel) and non-ferrous (aluminium) substrates.

This gauge with it's intuitive menu allows you to use it straight out of the box.

- **Fast and accurate reading rate:**  
Greater than 60 readings per minute.
- **Large, easy to read display:**  
The angled, 'enlarged' display is ideal for viewing from all angles.
- **Simple 'zero cal' feature:**  
Complete with factory calibration reset if no access to the uncoated substrate.
- **Auto switches to Ferrous or Non-Ferrous:**  
Ideal for measuring paint or powder on both steel and aluminium surfaces.
- **Metric or Imperial measurements:**  
Readings can be displayed in microns or mills.
- **Bigfoot™ probe for repeatable results:**  
Integral probe with V-groove allows accurate positioning on smooth, flat surfaces.
- **Ergonomic design for maximum comfort:**  
Easy to hold gauge allows for regular daily use.
- **On-screen instructions:**  
The User is guided through the functions of the gauge - in over 20 languages.
- **Rugged & Reliable:**  
Built from ABS plastic, this durable gauge is ideal for the paint & powder coating environment.

**Coating Thickness Gauges**

Coating thickness gauges are used for the measurement of coatings on all metal surfaces. Digital coating gauges are more accurate, more repeatable and more reproducible than any other coating thickness gauges available on the market today. Mechanical coating gauges are the ideal choice when coating thickness needs to be measured in areas where batteries cannot be used or are difficult to obtain. For example in remote locations, underwater, where dangerous gasses are present, you are looking for a basic coating thickness gauge to measure coatings on ferrous substrates.

Elcometer offer the most comprehensive range of both digital and mechanical coating thickness gauges to meet all you requirements.

Can be used in accordance with:	
BS 5411 (11) (3)	BS 3900 (C5)
BS 5599	BS EN ISO 1461
ISO 2178	ISO 2360
ISO 2808	SSPC-PA2 2004
DIN 50984	DIN 50981
ASTM B 244	ASTM B 499
ASTM D 1400	ASTM D 1186

<b>Range</b>	0 to 1000µm (0 to 40 mils)
<b>Accuracy</b>	±3% or ±3µm (±0.12 mils)
<b>Resolution</b>	1µm (0.1 mils)
<b>Measurement Speed</b>	Greater than 60 readings per minute
<b>Weight</b>	130g (4.1oz)
<b>Dimensions</b>	110 x 75 x 35mm (4.3 x 3 x 1.38")
<b>Operating Temperature (ambient)</b>	0° to 50°C (32° to 120°F)
<b>Maximum Operating Temperature (probe)</b>	80°C (176°F)
<b>Storage Temperature</b>	-10° to 55°C (14° to 130°F)
<b>Case</b>	High impact ABS Plastic
<b>Batteries</b>	2 x LR03 (AAA) alkaline dry batteries or rechargeable equivalents (supplied)
<b>Packing list</b>	<b>Paint &amp; Powder Gauge:</b> Elcometer 415 gauge, 4 x check foils (50, 125, 500 & 1000µm / 2, 5, 20 & 40 mils), soft carry case, batteries and operating instructions <b>Automotive Gauge:</b> Elcometer 415 gauge, 4 x check foils (25, 75, 125 & 250µm / 1, 3, 5 & 10 mils), ferrous checkpiece, non-ferrous checkpiece, soft carry case, batteries and operating instructions
<b>Part Number</b>	<b>Paint &amp; Powder Gauge:</b> A415FNFI1 <b>Automotive Gauge:</b> A415FNFI1AUTO

<b>Spares / Accessories</b>	
Ferrous Coating Thickness Standards, 2 Values (50 & 250µm / 2 & 10mil) with Zero Plate	T995166001
Ferrous Coating Thickness Standards, 4 Values (50, 150, 250 & 500µm / 2, 6, 10 & 20mil) with Zero Plate	T995111261
Non-Ferrous Coating Thickness Standards, 2 Values (50 & 125µm / 2 & 5mil) with Zero Plate	T995166011
Non-Ferrous Coating Thickness Standards, 4 Values (40, 75, 125 & 175µm / 1.6, 3, 5 & 7mil) with Zero Plate	T995111271
Ferrous Checkpiece	T99916925
Non-Ferrous Checkpiece	T99916901
Foil: 25µm / 1mil	T9904170-
Foil: 50µm / 2mil	T9904171-
Foil: 75µm / 3mil	T99011411
Foil: 125µm / 5mil	T9904172-
Foil: 250µm / 10mil	T9904174-
Foil: 500µm / 20mil	T9904175-
Foil: 1000µm / 40mil	T9904176-

## Related Products



Ideal for both smooth and rough blast profiled and surfaces, the Elcometer 456 has multiple calibration options for accurate, repeatable readings.

With its large, backlit screen the Elcometer 456 range clearly displays the readings and statistics instantaneously. All menus are available in multiple languages and selected by the User.

The memory can store up to 40,000 readings in 999 batches. Readings can be directly outputted to either a printer or to a PC, making the production of reports quick and easy.

The Elcometer 456 remains one of the most advanced hand held coating thickness gauge on the market today and is available with either Integral probes (built in) or an extensive range of separate plug in probes.

### ENGLAND

Elcometer Ltd  
Edge Lane  
Manchester M43 6BU

Tel: +44 (0)161 371 6000  
Fax: +44 (0)161 371 6010  
e-mail: sales@elcometer.com  
www.elcometer.com

### USA

Elcometer Inc  
1893 Rochester Industrial Drive  
Rochester Hills Michigan 48309

Tel: +1 248 650 0500  
Toll Free: 800 521 0635  
Fax: +1 248 650 0501  
e-mail: inc@elcometer.com  
www.elcometer.com

### CANADA

Elcometer Ltd  
PO Box 622, 401 Ouelette Avenue  
Windsor, Ontario N9A 6N4

Tel: +1 248 650 0500  
Toll Free: 800 521 0635  
Fax: +1 248 650 0501  
e-mail: ca\_info@elcometer.com  
www.elcometer.com

### ASIA & THE FAR EAST

Elcometer (Asia) Pte Ltd  
896 Dunearn Rd  
Sime Darby Centre #3-09  
Singapore 589472,  
Republic of Singapore

Tel: +65 6462 2822  
Fax: +65 6462 2860  
e-mail: asia@elcometer.com  
www.elcometer.com

### BELGIUM

Elcometer SA  
Rue Vallée 13  
B-4681 Hermalle /s Argenteau

Tel: +32 (0)4 379 96 10  
Fax: +32 (0)4 374 06 03  
e-mail: be\_info@elcometer.be  
www.elcometer.be

### FRANCE

Elcometer Sarl  
97 Route de Chécy  
45430 BOU

Tel: +33 (0)2 38 86 33 44  
Fax: +33 (0)2 38 91 37 66  
e-mail: fr\_info@elcometer.fr  
www.elcometer.fr

### GERMANY

Elcometer Instruments GmbH  
Ulmer Strasse 68  
D-73431 Aalen

Tel: +49 (0)7361 52806 0  
Fax: +49 (0)7361 52806 77  
e-mail: de\_info@elcometer.de  
www.elcometer.de