

elcometer®
inspection equipment



Elcometer 415
Industrial Paint & Powder
Thickness Gauge

Elcometer 415

Paint & Powder Coating Thickness Gauge

The Elcometer 415 Industrial Paint & Powder Thickness Gauge provides simple, fast and accurate coating thickness measurements on smooth & thin industrial paint and powder coated surfaces.

STANDARDS:
 AS2331.1.4, AS/NZS 1580.108.1,
 ASTM B 499, ASTM D 1186,
 ASTM D 1400, ASTM D 7091,
 ASTM E 376, BS 3900-C5-6A,
 BS 3900-C5-6B, BS 5411-11,
 BS 5411-3, BS 5599, DIN 50981,
 DIN 50984, ECCA T1, EN 13523-1,
 ISO 2360, ISO 2808-12, ISO 2808-6A,
 ISO 2808-6B, ISO 2808-7C,
 ISO 2808-7D, JIS K 5600-1-7,
 NF T30-124

new

- Large easy to read values in microns or mils
- 1 point & 2 point calibration ensures accuracy on smooth & thin coated substrates
- Easy to use, ergonomic design provides maximum comfort for continuous use
- Incredibly fast (60+ readings per minute), reducing inspection times, increasing productivity
- Measures cured paint & powder coatings up to 1000µm (40mils)

2 YEAR*
WARRANTY



- Auto rotating large colour display provides clear visibility whatever the angle of measurement
- Scratch, solvent & powder resistant display
- Transfer live data via USB or Bluetooth® to ElcoMaster® for instant report generation
- Rugged & resistant to powder coatings ingress equivalent to IP64
- Automatically switches between ferrous & non-ferrous substrates¹



Ideal for measuring dry film thickness on thin coated substrates.



360° auto rotating display for a clear reading at any measurement angle, on the production line or QA station.



Transfer live data via Bluetooth® to PC, Android™ or iOS mobile devices.²

Made for
 iPod iPhone iPad

Android™

available with
 Bluetooth®
 wireless technology

compatible with
 ElcoMaster.

Elcometer 415 Model T: Made for iPhone 6 Plus, iPhone 6, iPhone 5s, iPhone 5c, iPhone 5, iPhone 4s, iPhone 4, iPad Air 2, iPad mini 3, iPad Air, iPad mini 2, iPad (3rd and 4th generation), iPad mini, iPad 2, and iPod touch (4th and 5th generation). "Made for iPod," "Made for iPhone," and "Made for iPad" mean that an electronic accessory has been designed to connect specifically to iPod touch, iPhone, or iPad, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod touch, iPhone, or iPad may affect wireless performance.

Paint & Powder Coating Thickness Gauge

Elcometer 415

In addition to the coating thickness, the Elcometer 415 displays the key statistical values required to assess overall industrial finishing; number of readings (n), average coating thickness (\bar{x}), the lowest (Lo) and the highest (Hi) paint thickness.

The Elcometer 415 is easy to use and has 1 point & 2 point calibration, ensuring accurate measurements on smooth & thin industrial paint & powder coated surfaces.

Robust, durable & powder resistant, the Elcometer 415 is available with a 2 year* manufacturer's warranty; giving you peace of mind.

As each measurement is taken, the Elcometer 415 instantly transmits the thickness values via Bluetooth^{® 2} or USB straight into an inspection application or into ElcoMaster[®], Elcometer's Mobile App, for instant report generation.



Technical Specification



Model	Model B	Model B	Model T	Model T	Certificate
Part Number	A415CFBI	A415CFNFB1	A415CFTI	A415CFNFTI	●
Built in Probe Type	Ferrous	Ferrous/ Non Ferrous	Ferrous	Ferrous/ Non Ferrous	
Live Data Output	USB	USB	Bluetooth [®] & USB	Bluetooth [®] & USB	
On Screen Statistics	Number of readings (n), Average/Mean (\bar{x}), Lowest reading (Lo), Highest reading (Hi)				
Fast Accurate Reading Rate	60+ readings per minute		Measurement Range: 0 - 1000 μ m (0 - 40mils)		
Accuracy ³	$\pm 1-3\%$ or $\pm 2.5\mu$ m (± 0.1 mil)				
Resolution	0.1 μ m: 0 - 100 μ m; 1 μ m: 100 - 1000 μ m (0.01mil: 0 - 5mils; 0.1mil: 5 - 40mils)				
Minimum Substrate Thickness	Steel: 300 μ m (12mils)		Aluminium: 100 μ m (4mils) - FNF gauges only		
Operating Temperature	-10 to 50°C (14 to 122°F)		Relative Humidity (RH): 0 to 95%		
Power Supply	2 x AA Batteries or via USB Cable (<i>rechargeable batteries can also be used</i>)				
Battery Life ⁴	Alkaline: Approximately 16 hours Lithium: Approximately 24 hours				
Gauge Dimensions (h x w x d)	14.1 x 7.30 x 3.70cm (5.55 x 2.87 x 1.46")				
Gauge Weight	156g (5.5oz) (<i>including batteries</i>)				
Packing List	Elcometer 415 gauge, 2 x AA batteries, steel & aluminium check pieces ⁵ , foil set, wrist strap, impact resistant carry case, screen protector ² , calibration test certificate, operating instructions, USB cable ² , ElcoMaster [®] CD ² & 2 year warranty extension card				

Accessories

T99916925	Calibration Check Piece; Steel (Ferrous)
T99916901	Calibration Check Piece; Aluminum (Non-Ferrous)
T99022255-1	Foil Set; 0-1000 μ m (0 - 40mils)
T99022255-1C	Certified Foil Set; 0 - 1000 μ m (0 - 40 mils)
T99921325	USB Cable
T99922341	Self Adhesive Screen Protectors (Pack of 10)

¹ Elcometer 415 FNF models ² Elcometer 415 Model T

³ When subject to a 2-point calibration: $\pm 1\%$ when calibrated close to the required thickness, $\pm 3\%$ across the range

⁴ Rechargeable batteries may differ

⁵ F models: steel check piece; FNF models: steel & aluminium check pieces

* Elcometer 415 gauges are supplied with a one year warranty against manufacturing defects. The warranty can be extended to two years via www.elcometer.com

● Calibration test certificate supplied as standard



elcometer[®]
www.elcometer.com

elcometer.be • elcometer.fr • elcometer.de • elcometer.nl
elcometer.jp • elcometer.ae • elcometer.com.sg

Elcometer 415 Model T: Made for iPhone 6 Plus, iPhone 6, iPhone 5s, iPhone 5c, iPhone 5, iPhone 4s, iPhone 4, iPad Air 2, iPad mini 3, iPad Air, iPad mini 2, iPad (3rd and 4th generation), iPad mini, iPad 2, and iPod touch (4th and 5th generation). "Made for iPod," "Made for iPhone," and "Made for iPad" mean that an electronic accessory has been designed to connect specifically to iPod touch, iPhone, or iPad, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod touch, iPhone, or iPad may affect wireless performance. iPad, iPhone, and iPod touch are trademarks of Apple Inc., registered in the U.S. and other countries. App Store is a trademark of Apple Inc., registered in the U.S. and other countries.

Suitable for mobile devices running Android™ software version 2.1 and upwards. Android™ and Google Play are trademarks of Google Inc.

© 2017 Elcometer Limited. Elcometer and ElcoMaster® are registered trademarks of Elcometer Limited. All other trademarks acknowledged.

Due to our policy of continuous improvement, Elcometer Limited reserves the right to change specifications without notice.

ENGLAND

Elcometer Limited
Manchester M43 6BU
Tel: +44 (0)161 371 6000
Fax: +44 (0)161 371 6010
sales@elcometer.com
www.elcometer.com

BELGIUM

Elcometer SA
Tel: +32 (0)4 379 96 10
Fax: +32 (0)4 374 06 03
be_info@elcometer.com
www.elcometer.be

FRANCE

Elcometer Sarl
Tel: +33 (0)2 38 86 33 44
Fax: +33 (0)2 38 91 37 66
fr_info@elcometer.com
www.elcometer.fr

GERMANY

Elcometer Instruments GmbH
Tel: +49(0)7361 52806 0
Fax: +49(0)7361 52806 77
de_info@elcometer.com
www.elcometer.de

THE NETHERLANDS

Elcometer NL
Tel: +31 (0)30 259 1818
Fax: +31 (0)30 210 6666
nl_info@elcometer.com
www.elcometer.nl

JAPAN

Elcometer KK
Tel: +81-(0)3-6869-0770
Fax: +81-(0)3-6433-1220
jp_info@elcometer.com
www.elcometer.jp

REPUBLIC OF SINGAPORE

Elcometer (Asia) Pte Ltd
Tel: +65 6462 2822
Fax: +65 6462 2860
asia@elcometer.com
www.elcometer.com.sg

UNITED ARAB EMIRATES

EL Inspection & Blasting
Equipment LLC
Tel: +971 4 295 0191
Fax: +971 4 295 0192
uae_sales@elcometer.com
www.elcometer.ae

USA

MICHIGAN
Elcometer Inc
Tel: +1 248 650 0500
Toll Free: 800 521 0635
Fax: +1 248 650 0501
inc@elcometer.com
www.elcometer.com

TEXAS

Elcometer of Houston
Tel: +1 713 450 0631
Toll Free: 800 521 0635
Fax: +1 713 450 0632
inc@elcometer.com
www.elcometer.com