

elcometer®
inspection equipment



Elcometer 415
Industrial Paint & Powder
Thickness Gauge

Elcometer 415

Industrial Paint & Powder Thickness Gauge

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

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

**360°
 AUTO
 ROTATING
 SCREEN**



Large easy to read values in microns or mils

Auto rotating large colour display provides clear visibility whatever the angle of measurement

1 point & 2 point calibration ensures accuracy on smooth & thin coated substrates

Scratch, solvent & powder resistant display

Easy to use, ergonomic design provides maximum comfort for continuous use

Transfer live data via USB or Bluetooth® to ElcoMaster® for instant report generation

Incredibly fast (60+ readings per minute), reducing inspection times, increasing productivity

Rugged & resistant to powder coatings ingress equivalent to IP64

Measures cured paint & powder coatings up to 1000µm (40mils)

Automatically switches between ferrous & non-ferrous substrates¹

new



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®² to PC, Android™ or iOS mobile devices.

Industrial Paint & Powder Thickness Gauge

Elcometer 415

Key Features Explained

The new Elcometer 415 doesn't just take a thickness measurement

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

Stay accurate with simple calibration

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

Each gauge is designed to last

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

Seamlessly connect to any PC, Android™ or iOS mobile device

As each measurement is taken the new Elcometer 415 instantly transmits the thickness values via USB or Bluetooth® 2 to your PC or mobile device using ElcoMaster® or your own software application.



ElcoMaster®
data management software



**360°
AUTO
ROTATING
SCREEN**

Bluetooth®



Download on the
App Store

ANDROID APP ON
Google play

Android™

Made for

iPod iPhone iPad

compatible with
ElcoMaster®

** 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

Dry Film Thickness - Digital

Elcometer 415

Industrial Paint & Powder Thickness Gauge®

Technical Specification

Model	Model B	Model B	Model T	Model T	Certificate
Part Number	A415CFBI	A415CFNFBI	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)				
Reading rate	60+ readings per minute		Measurement Range: 0 - 1000 μ m (0 - 40mils)		
Accuracy ¹	$\pm 1-3\%$ 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)**		
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 ²	Alkaline: Approx. 16 hours		Lithium: Approx. 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*, foil set, wrist strap, impact resistant carry case, screen protector†, calibration test certificate, operating instructions, USB cable†, ElcoMaster CD† & 2 year warranty extension card

Accessories

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

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

² Rechargeable batteries may differ

† Model T

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

** FNF models

● Calibration Certificate supplied as standard.

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.

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